	REVISIONS						
REV	DESCRIPTION	DATE	APP				
Α	ORIGINAL RELEASE PER DDR	11/02/05	ADG				

GENERAL NOTES:

- 1. THE MODEL PA2001 SHOULD BE PLACED IN A CONVENIENT LOCATION THAT MAINTAINS ACCESS TO THE UNIT SHOULD REPAIRS OR READJUSTMENT BE REQUIRED. THE SENSOR SHOULD NOT BE LOCATED MORE THAN 100 FEET FROM THE PA2001 PREAMPLIFIER. IT IS RECOMMENDED THAT THE PA2001 BE INSTALLED ON OR NEAR THE SENSOR TO ASSURE OPTIMUM PERFORMANCE.
- 2. CONNECTIONS TO THE TERMINAL BLOCK SHOULD BE CAREFULLY DRESSED TO AVOID HAVING BARE WIRES EXTEND PASS THE SCREW CLAMP ON THE TERMINAL BLOCK. THIS IS PARTICULARLY IMPORTANT WHEN THE PC CARD IS MOUNTED WITHIN AN EXPLOSION PROOF ENCLOSURE. WIRES SHOULD BE NEATLY DRESSED NEAR BOTTOM OF ENCLOSURE TO PREVENT PROBLEMS WHEN COVER IS INSTALLED.
- 3. FOR COMPLIANCE WITH EMI/RFI REQUIREMENTS THE PRE-AMPLIFIER MUST BE INSTALLED IN A METAL ENCLOSURE SUCH AS A SUITABLE NEMA 4 (E.G. GUAC) JUNCTION BOX. THE ENCLOSURE MUST BE PROPERLY GROUNDED AND A GROUNDING STRAP IS REQUIRED FROM THE ENCLOSURE TO THE POWER SUPPLY COMMON (PIN 2).
- 4. THE CABLE ENTRY REQUIRES 360° GROUNDING COVERAGE TO THE ENCLOSURE CASE. THIS IS OBTAINED BY USING TWISTED PAIR WITH FULL BRAID CABLE AND A CABLE FITTING THAT PROVIDES A METAL TO METAL CABLE CLAMPING CONNECTION. THE INSULATION OF THE CABLES SHOULD BE STRIPPED BACK TO ALLOW FOR CONNECTION TO THE TERMINAL BLOCK AND ALLOW FOR THE CABLE FITTING TO CLAMP ONTO THE BRAIDED SHIELD. ANY OPEN AREAS SHOULD THEN BE COVERED USING FOIL TAPE.
- 5. IN HAZARDOUS LOCATIONS WHERE METAL CONDUIT IS USED, 360° GROUNDING IS ACHIEVED. ALL CABLE SHIELDS SHOULD BE TERMINATED TO THE ENCLOSURE—GROUNDING STUD.

MATERIAL	APPROVALS		MOTION SENSORS INC.					\sim
NONE	DRAWN DATE D.GUYDAN 10/28/05		ELIZABETH CITY, NC 27909				•	
FINISH	CHECK J.DEFEO	11/02/05	ппе					
	ISSUED M.BERGMAN	11/02/05		INSTALLATION DRAWING			ヽ フ	
NONE	DIMENSION INCH	[MC]	PA2001 PRE-AMPLIFIER			7		
CONFIDENTIAL PROPERTY OF MOTION	DEFAULT TOLERANCES SHALL BE AS INDI UNLESS OTHERWISE SPECIFIED (UOS):	ICATED BELOW						
SENSORS, INC. (MSI) NOT TO BE DISCLOSED TO OTHERS, REPRODUCED, OR USED FOR ANY OTHER PURPOSE, EXCEPT AS AUTHORIZED IN WRITING BY MSI. MUST	1 PLACE DECIMAL ±.015 2 PLACE DECIMAL ±.01 3 PLACE DECIMAL ±.005		SIZE	CAGE CODE	DWG NO	A-1	556	REV A
BE RETURNED ON DEMAND.	FRACTIONAL ±1/64 ANGULAR ±1/2*		SCALE	NONE			SHEET 1 (OF 2

NOTES (REFER TO FIGURE 1):

- 1. SET SOLDER BRIDGE JP2 AND JP3 (SEE FIGURE 2) TO THE DESIRED SENSORS TYPE (MAG OR RF) POSITION.
- 2. CONFIGURE SOLDER BRIDGE JP1 (SEE FIGURE 2) TO THE DESIRED PULSE OUTPUT AS FOLLOWS:

PULSE OUTPUT TYPE	JP1 JUMPER CONFIGURATION
OPEN COLLECTOR	POSITION 2
SQUARE WAVE TO Vin	POSITION 1 AND 2
TTL/CMOS	POSITION 1, 2 AND 4
0-10 VDC SQUARE WAVE	POSITION 1, 2 AND 3

3. COIL SELECTION — TWO (2) SOLDER BRIDGE JUMPERS THAT ARE USED TO SELECT THE DESIRED SENSOR COIL TYPE TO BE USED AS INPUT:

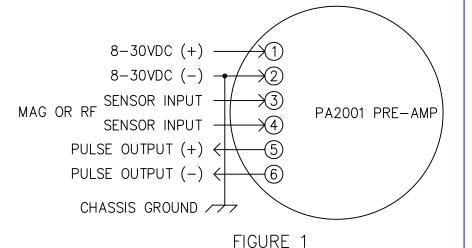
	 LOT THE DESINED SENSE	JIV OOIL TITE TO DE	0360 //3 1111 01.
	INPUT COIL TYPE	<u>JP2 SETTING</u>	JP3 SETTING
MAGNETIC POSITION 1 POSITION 3 AND	RF	POSITION 2	POSITION 1 AND 2
	MAGNETIC	POSITION 1	POSITION 3 AND 4

4. PULSE SELECTION — A FOUR (4) SOLDER BRIDGE JUMPERS THAT ARE USED TO SELECT THE DESIRED TYPE OF PULSE OUTPUT:

PULSE OUTPUT TYPE
OPEN COLLECTOR
SQ WAVE TO Vin
TTL/CMOS
0-10VDC SQ WAVE

JP1 SETTING
POSITION 2
POSITION 1 AND 2
POSITION 1, 2 AND 4
POSITION 1, 2 AND 3

BE RETURNED ON DEMAND.



CONTROLS AND ADJUSTMENTS

REVISIONS

ORIGINAL RELEASE PER DDR

DESCRIPTION

DATE

11/02/05 ADG

REV

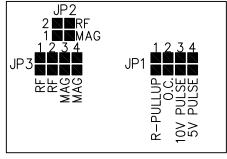


FIGURE 2

MATERIAL	MATERIAL APPROVALS			
NONE	DRAWN DATE 10/28/0)5		
	CHECK J.DEFEO 11/02/0)5 TITLE		
FINISH	ISSUED IT SELECTION IN SELECTIO			
NONE	M.BERGMAN 11/02/0 DIMENSION UNITS UOS INCH	15 H		
CONFIDENTIAL PROPERTY OF MOTION	DEFAULT TOLERANCES SHALL BE AS INDICATED BELOW UNLESS OTHERWISE SPECIFIED (UOS):			
SENSORS, INC. (MSI) NOT TO BE DISCLOSED TO OTHERS, REPRODUCED, OR USED FOR ANY OTHER PURPOSE, EXCEPT AS AUTHORIZED IN WRITING BY MSI. MUST	1 PLACE DECIMAL ±015 2 PLACE DECIMAL ±01 3 PLACE DECIMAL ±.005 FRACTIONAL ±1/64	SIZE		

MOTION SENSORS INC.

ELIZABETH CITY, NC 27909

INSTALLATION DRAWING PA2001 PRE-AMPLIFIER

SIZE	CAGE CODE		DWG NO					REV
Α	OY2U	4		ST-A-1	556	3		Α
SCALE	NONE		-		SHEET	2	OF	2